Kepco Regulated
Power Supply
KR6 / KR6M

VOLTAGE REGULATED POWER SUPPLY

MODEL KR6
MODEL KR6M*

SERIAL A-..1144.8

KEPCO LABORATORIES, INC.
131 - 38 Sanford Avenue
Flushing 55, New York

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VOLTAGE REGULATED POWER SUPPLY

MODEL KR6
MODEL KR6M*

SPECIFICATIONS:

DC OUTPUT VOLTAGE

VOLTAGE: 195-325 volts continuously variable.

CURRENT: 0-600 milliamperes continuous duty.

REGULATION: In the range 195-325 volts, the output voltage variation is less than 0.2 volts for line fluctuation from 105-125 volts and less than 0.2 volts for load variations from minimum to maximum current.

RIPPLE VOLTAGE: The ripple voltage is less than 3 millivolts RMS under any condition of loading and line voltage within the limits specified above.

AC OUTPUT VOLTAGES

VOLTAGE: Two 6.3 volts, unregulated, and isolated from chassis and DC output.

CURRENT: 10 amperes maximum each, may be operated in series or parallel. For series operation, 12.6 volts at 10 amperes, join terminals 5 to 6 and connect to 4 and 7. For parallel operation, 6.3 volts at 20 amperes, join terminals 4 to 6 and terminals 5 to 7 and connect to either pair.

FUSE PROTECTION: Input fuse and DC output fuses on front panel.

POWER REQUIREMENTS: 105-125 volts, 50-65 cycles.

OUTPUT TERMINATIONS: The DC and AC output terminals are brought out to a barrier strip on the rear of the chassis. Either positive or negative terminal of the DC supply may be grounded. A terminal is provided on the barrier strip for this purpose. Two blank terminals are also provided.

*METERS: Voltmeter: 0-500 volts, 3-1/2" rectangular.

Milliammeter: 0-600 milliamperes, 3-1/2" rectangular.

CONTROLS: Power on-off switch and DC on-off switch on front panel. DC output control - screwdriver locking type mounted at the rear of the chassis.

PHYSICAL SPECIFICATIONS: Rack panel construction. Panel height 10-1/2", width 19", depth 13", color Kepco standard gray hammertone. This unit is designed for relay rack mounting.

OPERATING INSTRUCTIONS: The Kepco Model KR6, KR6M Regulated Power Supply is shipped with all tubes in place and is ready for operation.

PROCEDURE FOR TURNING ON POWER SUPPLY:

Turn on the AC power switch and allow the power supply 1/2 minute warm up time for the time delay relay to operate. Turn on the DC output switch to apply the regulated voltage to the load.

The time delay relay in this unit is a thermal type. When the thermal time delay relay closes, an auxiliary double pole-double throw relay is activated. One half of this relay removes the heater voltage from the time delay relay. The other half of the relay closes the primary circuit of the high voltage plate transformer. In the event that the line voltage should fail momentarily, this double pole-double throw relay will be de-energized. When the line voltage is again turned on, the DC voltage will

not re-appear for approximately 30 seconds.

To adjust the DC output voltage to any setting within the range of the instrument, loosen the locking nut on voltage control. Set the control to the desired voltage and then tighten the locking nut.

MAINTENANCE: The components of the Model KR6, KR6M Regulated Power Supply have been selected and tested to provide long and trouble free operating life. The only service necessary should be the replacement of vacuum tubes. The location of the tubes is clearly marked on the chassis.

REPAIRS: Should any trouble develop in the instrument, it may be serviced with the aid of the schematic diagram. Major repairs, however, are usually handled by the factory.

Under no circumstances should the instrument be returned to the factory without proper authorization and shipping instructions. In any correspondence with the factory concerning repairs, the type and serial number of the instrument must be given together with a description of the trouble encountered.

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PARTS LIST - MODEL KR6, KR6M*

DRAWING S-KR6-01

C1	- 8	MF	1000 WV
C2	- 8	MF	1000 WV
C3	- 8	MF	1000 WV
C4	- 8	MF	1000 WV
C5 & C6	- Omitted		
C7	- 4	MF	1000 WV
C8	- .001	MF	2000 WV
C9	- 0.1	MF	600 WV
C10	- 0.1	MF	600 WV
C11	- 0.1	MF	600 WV
C12	- 0.25	MF	600 WV
C13	- 500	MMF	2000 WV
C14	- 500	MMF	2000 WV
C15	- 22	MMF	2000 WV
F1	- 8 Amp. Fuse		
F2	- 3/4 Amp. Fuse		
*M1	- Milliammeter 0-600 MA DC		
*M2	- Voltmeter 0-500 V DC		
PL1	- Neon Pilot Light NE-51		
PL2	- Neon Pilot Light NE-51		
R1	- 250	K	2 watt Pot.
R2	- 30	K	10 watt WW
R3	- 50	K	10 watt WW
R4	- 100	K	20 watt WW
R5	- 100	Ohm	1 watt
R6	- 100	Ohm	1 watt
R7	- 100	Ohm	1 watt
R8	- 100	Ohm	1 watt
R9	- 100	Ohm	1 watt
R10	- 100	Ohm	1 watt
R11	- 100	Ohm	1 watt
R12	- 1.2	Meg.	1 watt
R13	- 100	Ohm	1 watt
R14	- 100	Ohm	1 watt
R15	- 100	Ohm	1 watt
R16	- 100	Ohm	1 watt
R17	- 100	Ohm	1 watt
R18	- 100	Ohm	1 watt
R19	- 100	Ohm	1 watt
R20	- 47	Ohm	1 watt
R21	- 47	Ohm	1 watt
R22	- 47	Ohm	1 watt

R23	- 47	Ohm	1 watt
R24	- 47	Ohm	1 watt
R25	- 47	Ohm	1 watt
R26	- 47	Ohm	1 watt
R27	- 3.6	Meg.	1 watt
R28	- 1.2	Meg.	1 watt
R29	- 560	K	1 watt
R30	- 560	K	1 watt
R31	- 1.2	Meg.	1 watt
R32	- 3.6	Meg	1 watt
R33	- 100	K	1 watt
R34	- 150	K	1 watt
R35	- 56	K	1 watt
R36	- 270	K	1 watt
R37	- 100	K	1 watt
R38	- 56	K	1 watt
R39	- 5	K	5 watt WW
R40	- 82	K	1 watt

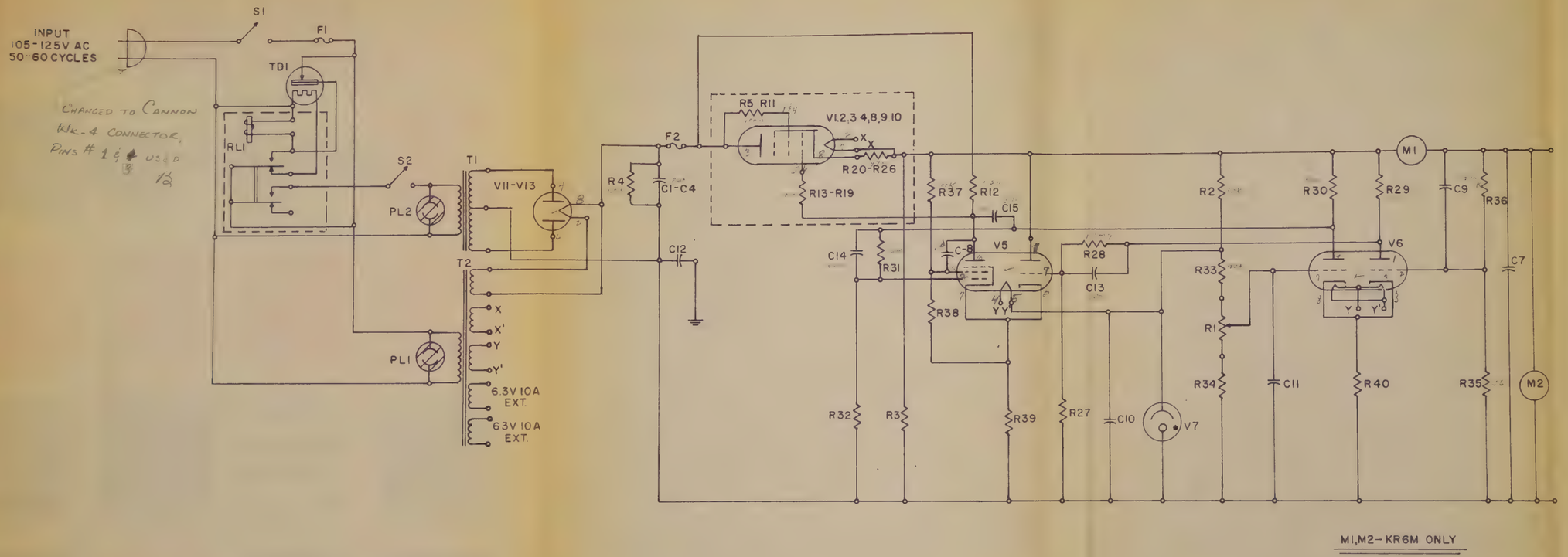
RL1 - DPDT Relay

S1 - SPST Switch
S2 - SPST Switch

T1 - Kepco #100-558
T2 - Kepco #100-595

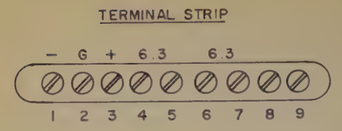
TD1 - 117-30-GO or 115 NO 30T

V1 - 6550
V2 - 6550
V3 - 6550
V4 - 6550
V5 - 6U8
V6 - 12AX7
V7 - 85A2/OG3
V8 - 6550
V9 - 6550
V10 - 6550
V11 - 5U4GB
V12 - 5U4GB
V13 - 5U4GB



CHANGED TO CANNON WK-4 CONNECTOR, PINS # 1 & 12 USED

TERMINAL STRIP



VOLTAGE RANGE
195-325V 600MA
6.3V AC 10AMPS
6.3V AC 10AMPS

M1,M2–KR6M ONLY

KEPCO LABORATORIES	
FLUSHING	NEW YORK
ITEM: POWER SUPPLY	DES.
	APPD K.K.
MODEL KR6,6M	DFTM W.V.D.
DWG. No. S-KR6,6M-01	CHKD C.T.R.

B-581

Kepco

voltage regulated power supplies

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INDEPENDENCE 1-7000

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V.R.P.S.*

TRANSISTORIZED

- **REGULATION** (for line or load) 0.03% or 0.003 Volts (whichever is greater)
- **RIPPLE:** 1 mv. rms.
- **RECOVERY TIME** 50 microseconds
- **STABILITY** (for 8 hours) 0.03% or 0.003 Volts (whichever is greater)

- Tubeless.
- 0.005% resolution with 10 turn voltage control.
- Continuously variable output voltage without switching.
- External overload and short circuit protection included.
- Either positive or negative can be grounded.
- Units can be series connected.
- Suitable for square wave pulsed loading.
- Power requirements: 105-125 volts, 50-65 cycle. 400 cycle units available.
- Terminations on front and rear of unit.
- High efficiency.
- Low heat dissipation.
- Compact, light weight.
- Color: grey hammertone.
- Suitable for bench or rack use.
- Voltmeter and ammeter provided.

Provision is made for remote error signal sensing to maintain stated regulation directly at the load.

*VOLTAGE REGULATED POWER SUPPLIES

Model	DC Output Volts	DC Output Amps.	Output Impedance Ohms DC-1 KC	Output Impedance Ohms 1 KC-100 KC	Rack Mount W	Rack Mount H	Rack Mount D
SC-32-0.5	0-32	0-0.5	0.02	0.2	19″	3½″	13
SC-32-1	0-32	0-1	0.01	0.1	19″	3½″	13
SC-32-1.5	0-32	0-1.5	0.01	0.1	19″	3½″	1
2SC-32-1.5	0-32	0-1.5	0.01	0.1	19″	7″	1
DUAL OUTPUT	0-32	0-1.5	0.01	0.1			
SC-32-2.5	0-32	0-2.5	0.01	0.1	19″	3½″	1
SC-32-5	0-32	0-5	0.005	0.05	19″	5¼″	1
SC-32-10	0-32	0-10	0.001	0.01	19″	8¾″	1
SC-32-15	0-32	0-15	0.001	0.01	19″	10½″	1
2SC-100-0.2	0-100	0-0.2	0.1	1.0	19″	5¼″	1
DUAL OUTPUT	0-100	0-0.2	0.1	1.0			
SC-150-1	0-150	0-1	0.05	0.5	19″	5¼″	13
SC-300-1	0-300	0-1	0.1	1.0	19″	8¾″	13

REGULATION: In the output voltage range the output voltage variation is less than 0.03% or 0.003 volts, whichever is greater, for load variation from 0 to maximum current, and less than 0.03% or 0.003 volts, whichever is greater, for line fluctuation from 105-125 volts.

RIPPLE VOLTAGE: Less than 1 millivolt RMS.

FUSE PROTECTION: Input fuse on front panel.

RECOVERY TIME: Less than 50 microseconds. The excursion in the output voltage during the recovery period is less than 0.05 volts for line fluctations from 105 to 125 volts or load variations from 0 to maximum current.

STABILITY: The output voltage variation for a period of 8 hours is less than 0.03% or 0.003 volts whichever is greater.

OUTPUT IMPEDANCE: Less than value stated in table.

POWER REQUIREMENTS: 105-125 volts, 50-65 cycles. (400 cycle units available.)

SHORT CIRCUIT PROTECTION: When the load exceeds the maximum output current by 20% a transistor amplifier automatically increases the impedance of the series pass transistors so that their wattage dissipation rating is never exceeded.

OUTPUT TERMINATIONS: DC terminals are clearly marked on the front panel. All terminals are isolated from the chassis. Either positive or negative terminal of each DC output may be grounded. A terminal is provided for connecting to the chassis. The DC terminals are also brought out at the rear of the unit.

METERS: A 2½″ rectangular voltmeter and ammeter are provided.

CONTROLS: Power on-off switch; ten turn voltage control.

PHYSICAL SPECIFICATIONS: See table, color Kepco standard gray hammertone. This unit is designed for relay rack mounting or bench use. Carrying handles are provided.

Pat.

most complete line of POWER SUPPLIES

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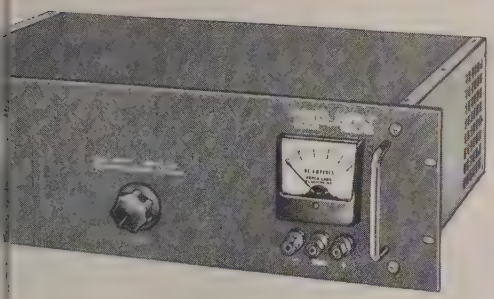
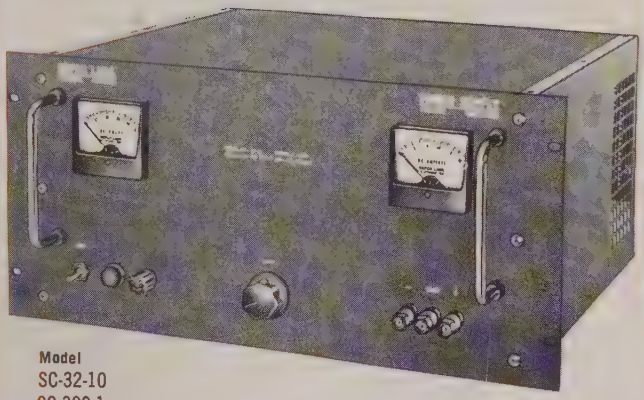
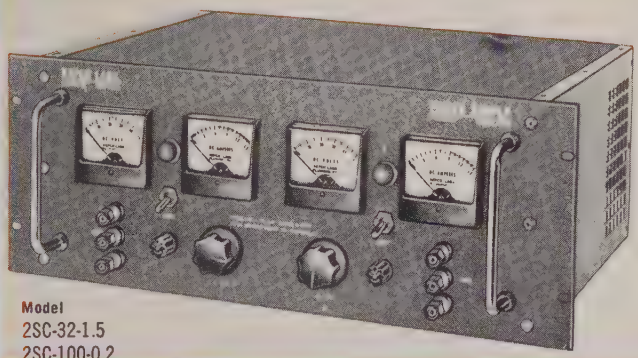
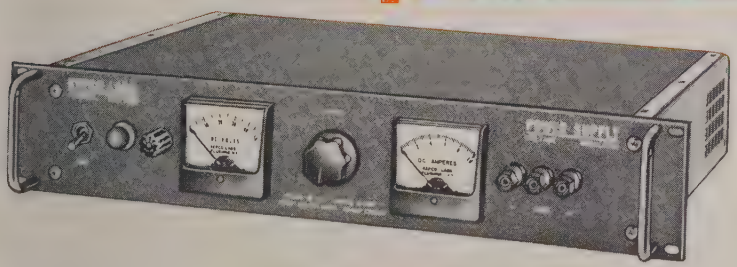




Model
SC-32-10
SC-300-1



Model
2SC-32-1.5
2SC-100-0.2



Model
SC-32-0.5
SC-32-1
SC-32-1.5
SC-32-2.5

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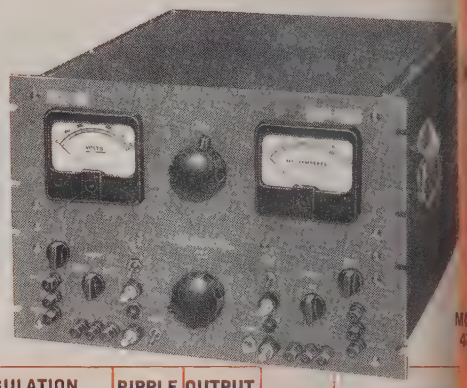
VOLTAGE REGULATED WIDE RANGE POWER SUPPLIES

USING ADVANCED VACUUM TUBE REGULATOR CIRCUITRY



MULTIPLE OUTPUT POWER SUPPLIES

ALL MODELS FEATURE

- Fast recovery time. Suitable for square wave pulsed loading.
- Voltage Range continuously variable without switching.
- Either positive or negative may be grounded.
- Power requirements 105-125 volts, 50-65 cycles except Models 2000B, 2600, 2650, 3100B and 3200B which require 60 cycles.
- Wire harness and resistor board construction.
- Terminations on front and rear of unit.
- Voltage controls, AC, DC switches, fuses and pilot lights on front panel.
- Color Grey Hammertone.
- Guarantee one year.

MODEL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK MOUNT W	H	D
800B	#1 0-600	0-200 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.5	10 Amp.	19"	12¼"	17"
	#2 0-600	0-200 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.5	10 Amp.			
	Parallel 1 & 2 0-600	0-400 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.2				
	Series 1 & 2 0-1200	0-200 ma.	0.01	0.1V	0.02	0.3V	5 mv.	0.5				
510B	#1 200-500	0-200 ma.	0.02	0.2V	0.04	0.2V	3 mv.	1.0	10 Amp.	19"	12¼"	17"
	#2 200-500	0-200 ma.	0.02	0.2V	0.04	0.2V	3 mv.	1.0	10 Amp.			
	Parallel 1 & 2 200-500	0-400 ma.	0.02	0.2V	0.04	0.2V	3 mv.	0.5				
	Series 1 & 2 400-1000	0-200 ma.	0.03	0.3V	0.03	0.3V	5 mv.	1.0				
430D	#1 0-450	0-300 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.3	10 Amp.	19"	12¼"	17"
	#2 0-450	0-300 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.3	10 Amp.			
	Parallel 1 & 2 0-450	0-600 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.2				
	Series 1 & 2 0-900	0-300 ma.	0.01	0.1V	0.03	0.3V	5 mv.	0.3				
2400B	#1 0-400	0-150 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.5	10 Amp.	19"	10½"	17"
	#2 0-400	0-150 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.5	10 Amp.			
	#3 0-150 Bias	0-5 ma.	*	*	0.007	*	1 mv.	*				
	Parallel 1 & 2 0-400	0-300 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.3				
	Series 1 & 2 0-800	0-150 ma.	0.01	0.1V	0.03	0.3V	5 mv.	0.5				
103✧	#1 0-300	0-75 ma.		Unregulated			30 mv.		5 Amp.	16"	8"	8"
	#2 0-300	0-75 ma.		Unregulated			30 mv.					
	#3 -50 to +50	0-5 ma.		Unregulated			10 mv.					
	Parallel 1 & 2 0-300	0-150 ma.		Unregulated			30 mv.					

REGULATION: In the output voltage range the output voltage variation is less than the figure shown in the table for line fluctuations from 105 to 125 volts and load variations from 0 to maximum current. Regulation is in % or absolute voltage change whichever is greater.

RIPPLE: Less than the value shown in the table.

STABILITY: The output voltage variation is less than the regulation specification for a period of 8 hours.

RECOVERY TIME: Less than 50 microseconds. The excursion in the output voltage during the recovery period is less than the regulation specification for line fluctuations from 105 to 125 volts and load variations from 0 to maximum current. For Models 2000B, 2600, 2650 and 3100B the excursion in output voltage during the recovery time is less than 50 mv.

For Model 3200B the recovery time is less than 100 microseconds for line fluctuations and less than 0.1 seconds for load variations, with an output voltage excursion of less than 1 volt during the recovery period.

OUTPUT IMPEDANCE: Less than the figure shown in tables.

***REGULATION FOR BIAS VOLTAGE:** In the range 0 to 150 volts the output voltage variation is less than 0.007% for line fluctuation from 105 to 125 volts. At 150 volts the output voltage variation is less than ½% for load variation from 0 to 5 ma. At settings below 150 volts the internal resistance of the supply will increase to a maximum of 25,000 ohms.

† All AC Voltages are unregulated.

✧These units are supplied in cabinets. The chassis, when removed from their cabinets, will mount directly in to a standard 19" wide relay rack. All units are designed for relay rack mounting or bench use.

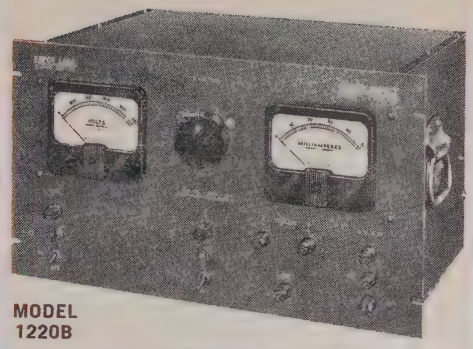
All units contain voltage and current meters except Models 103, 315B, and 2500. The Model 150 contains a voltmeter only.

ALL MODELS AVAILABLE (ON SPECIAL ORDER)

- **For programmable remote voltage control.**
- **For 400 cycle operation.**

HIGH VOLTAGE POWER SUPPLIES

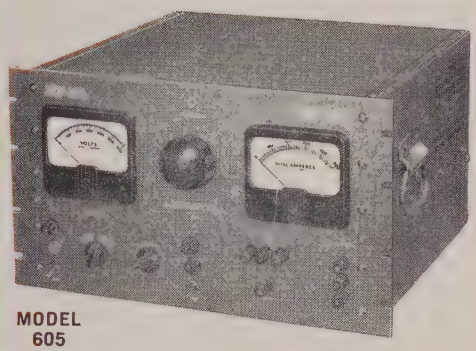
EL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK MOUNT W	H	D
5	0-2500	0-50 ma.	0.004	0.1V	0.008	0.2V	5 mv.	0.5		19″	12¼″	17″
5B✧	0-1500	0-200 ma.	0.006	0.1V	0.01	0.2V	3 mv.	0.5		19″	21″	13″
2B	0-1200	0-20 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.5	10 Amp.	19″	10½″	13″
2B✧	0-1000	0-500 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.2		19″	26¼″	13″
1B	0-1000	0-50 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.5	10 Amp.	19″	10½″	13″



MODEL 1220B

D-600 VOLT POWER SUPPLIES

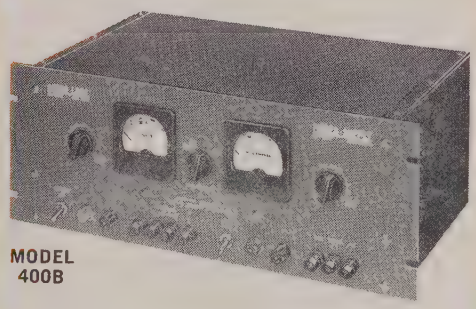
EL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK MOUNT W	H	D
3B✧	0-600	0-3 Amp.	0.01	0.1V	0.02	0.2V	3 mv.	0.03		19″	45½″	17″
3✧	0-600	0-2.25 Amp.	0.01	0.1V	0.02	0.2V	3 mv.	0.04		19″	45½″	17″
3✧	0-600	0-1.5 Amp.	0.01	0.1V	0.02	0.2V	3 mv.	0.06		19″	31½″	17″
3✧	0-600	0-750 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.1		19″	26¼″	13″
	0-600 0-150 Bias	0-500 ma. 0-5 ma.	0.01 *	0.1V *	0.02 0.007	0.2V *	3 mv. 1 mv.	0.2 *	20 Amp.	19″	10½″	17″
B	0-600 0-150 Bias	0-300 ma. 0-5 ma.	0.01 *	0.1V *	0.02 0.007	0.2V *	3 mv. 1 mv.	0.3 *	10 Amp.	19″	10½″	13″
RB	0-600	0-300 ma.	0.01	0.1V	0.02	0.2V	3 mv.	0.3	10 Amp.	19″	10½″	13″
B	0-600 0-150 Bias	0-200 ma. 0-5 ma.	0.01 *	0.1V *	0.02 0.007	0.2V *	3 mv. 1 mv.	0.5 *	10 Amp.	19″	10½″	13″
B	200-500	0-200 ma.	0.02	0.2V	0.04	0.2V	3 mv.	0.5	10 Amp.	19″	7″	7½″



MODEL 605

D-400 VOLT POWER SUPPLIES

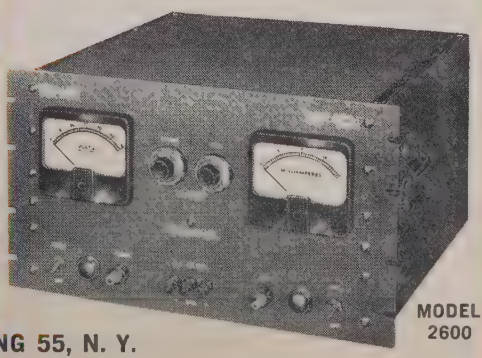
DEL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK MOUNT W	H	D
0B	0-400 0-150 Bias	0-150 ma. 0-5 ma.	0.02 *	0.1V *	0.04 0.007	0.2V *	3 mv. 1 mv.	0.5 *	10 Amp.	19″	7″	11″
5B	0-400 0-150 Bias	0-150 ma. 0-5 ma.	0.02 *	0.1V *	0.04 0.007	0.2V *	3 mv. 1 mv.	0.5 *	10 Amp.	19″	7″	11″
1B	0-400	0-150 ma.	0.02	0.1V	0.04	0.2V	3 mv.	0.5	10 Amp.	19″	7″	11″
0B	0-400	0-150 ma.	0.002	10 mv.	0.002	10 mv.	1 mv.	0.05		19″	10½″	13″
0B✧	0-350	0-3 Amp.	0.03	0.1V	0.06	0.2V	3 mv.	0.03		19″	26¼″	17″
0B✧	0-350	0-2.25 Amp.	0.03	0.1V	0.06	0.2V	3 mv.	0.04		19″	26¼″	17″
0B	0-350	0-1.5 Amp.	0.03	0.1V	0.06	0.2V	3 mv.	0.06		19″	12¼″	17″
0B	0-350	0-750 ma.	0.03	0.1V	0.06	0.2V	3 mv.	0.1		19″	10½″	13″



MODEL 400B

LOW VOLTAGE POWER SUPPLIES

DEL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	RACK MOUNT W	H	D
0B	0-150	0-50 ma.	0.05	0.1V	0.1	0.2V	3 mv.	0.9	19″	7″	7½″
0	0-60	0-2 Amp.	0.01	5 mv.	0.01	5 mv.	1 mv.	0.002	19″	10½″	17″
0✧	0-60	0-5 Amp.	0.01	5 mv.	0.01	5 mv.	1 mv.	0.001	19″	26¼″	17″
0B	0-30	0-500 ma.	0.03	10 mv.	0.03	10 mv.	3 mv.	0.02	19″	10½″	13″
0B✧	1-13	0-10 Amp.	0.5	—	0.5	—	10 mv.	0.01	19″	21″	13″



MODEL 2600

WIDE RANGE

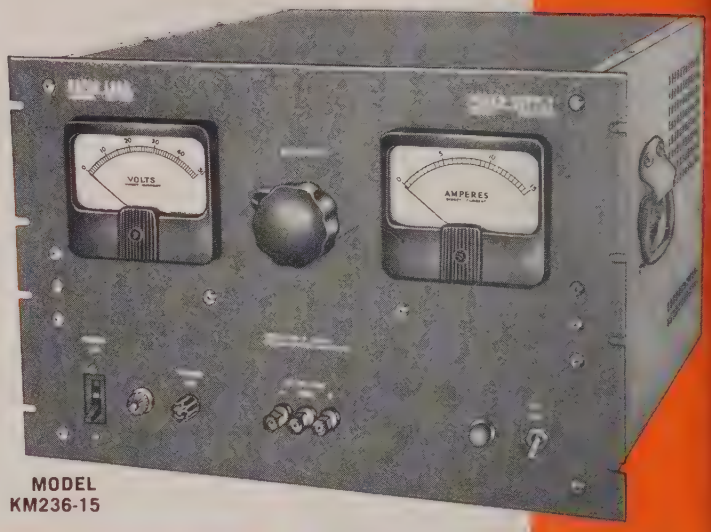
FIRST IN PERFORMANCE • RELIABILITY • QUALITY

MAGNETIC TUBELESS

first in Performance Reliability and Quality

Kepco

MAGNETIC TUBELESS VOLTAGE REGULATED POWER SUPPLIES



MODEL KM236-15

MODEL	DC OUTPUT VOLTS	DC OUTPUT CURRENT	REGULATION LOAD 0-MAX. % or ΔV		REGULATION LINE 105-125 % or ΔV		RIPPLE RMS	RACK MOUNT W	RACK MOUNT H	RACK MOUNT D
KM236-15	0.1-36	0-15 Amp.	0.5	0.025	0.5	0.025	0.5% or 25 mv.	19″	12¼″	17″
KM236-30✧	0.1-36	0-30 Amp.	0.5	0.025	0.5	0.025	0.5% or 25 mv.	19″	21″	17″
KM236-50✧	0.1-36	0-50 Amp.	0.5	0.025	0.5	0.025	0.5% or 25 mv.	19″	31½″	17″

0.1-36 VOLTS IN 15, 30 AND 50 AMP. UNITS

Pat. Pending

featuring

- **Output voltage within 0.5% during recovery time for line transients 105-125 volts.**
- **Short circuit will not damage supply.**
- **Full current may be drawn at any voltage from 0.1-36 volts.**

REGULATION: In the range 0.1-36 volts the output voltage variation is less than 0.5% or 25 millivolts for line fluctuation from 105-125 volts, and less than 0.5% or 25 millivolts for load variations from minimum to maximum current, whichever is greater.

RIPPLE VOLTAGE: Less than 0.5% or 25 millivolts RMS, whichever is greater.

FUSE PROTECTION: Input fuse on front panel.

OVERLOAD PROTECTION: An automatic current limiting device allows direct shorting of the output terminals without damage to the supply.

POWER REQUIREMENTS: KM236-15 and 30 — 105-125 volts, 57-63 cycles. KM236-50 — 208V ± 10% or 230V ± 10%, 57-63 cycles, single phase.

METERS: Ammeter and Voltmeter 4½″ rectangular.

OUTPUT TERMINATIONS: DC terminals are clearly marked on the front panel. Either positive or negative terminal of the supply may be grounded. DC terminals are isolated from the chassis. A binding post is available for connecting to the chassis. All terminals are also brought out at the rear of the chassis. Two terminals are mounted at the rear of the chassis to provide for picking up the error signal directly at the load This connection compensates for the voltage drop in the wires connecting the power supply to the load.

CONTROLS: Power on-off switch, DC on-off switch, remote error signal on-off switch, 10 turn voltage control.

OPERATIONAL CHARACTERISTICS: This regulated unit consists of a ferro-resonant line regulator followed by a magnetic amplifier regulator. The ferro-resonant line regulator furnishes well regulated transient free AC power. The high gain magnetic amplifier is used to regulate the DC output voltage to compensate for voltage changes in the power unit for varying load currents. The response time for pulse loads is less than 0.2 seconds.

✧These units are supplied in cabinets.

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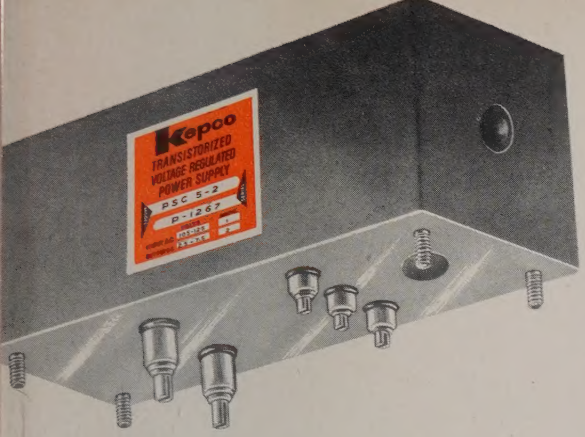
131-38 SANFORD AVENUE • FLUSHING 55, N.Y. • INDEPENDENCE 1-7000

RESEARCH • MANUFACTURING



New...Compact

TRANSISTORIZED

VOLTAGE REGULATED POWER SUPPLIES

MODEL	DC OUTPUT VOLTS	DC OUTPUT AMPS
PSC- 5-2	2.5 - 7.5	2
PSC-10-2	7.5-12.5	2
PSC-15-2	12.5-17.5	2
PSC-20-2	17.5-22.5	2
PSC-28-1	22.5-32.5	1
PSC-38-1	32.5-42.5	1

REGULATION: (for line or load) 0.02% or 0.002 Volts (whichever is greater).

RIPPLE: 1 mv. rms.

RECOVERY TIME: 50 microseconds

OUTPUT IMPEDANCE: DC to 1 KC, 0.01 ohms — 1 KC to 100 KC, 0.1 ohms.

Tubeless.

Continuously variably output voltage without switching.

External overload and short circuit protection included.

- Either positive or negative can be grounded.
- Units can be series connected.
- Suitable for square wave pulsed loading.
- Power requirements: 105-125 volts, 50-65 cycle. 400 cycle units available.
- High efficiency.
- Low heat dissipation.
- Compact, light weight.
- Color: grey hammer tone.
- Size: 5" x 5" x 12".

Provision is made for remote voltage control. Provision is made for remote error signal sensing to maintain stated regulation directly at the load.

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TRANSISTORIZED

DC TO DC CONVERTERS

These units are used in converting low voltage DC to high voltage DC for operating mobile and aircraft electronic equipment.

DC Output Volts	DC Output Current	DC Output VA Max.	DC Input Volts	DC Input V. Max.	Ripple RMS	Ripple P-P	Load Regulation	Efficiency	Model
325	100 MA.	33	6	7.0	1%	6%	10%	75%	SC-325-100-6
325	200 MA.	65	12	14.0	1%	6%	10%	80%	SC-325-200-12
325	200 MA.	65	28	32.0	1%	6%	6%	83%	SC-325-200-28

- High efficiency.
- Long, trouble-free operating life.
- Compact, light-weight.
- Overload protection.
- No moving parts.
- Instant starting.
- Negligible radio interference.
- No operating maintenance.
- Operate under high shock, vibration and acceleration.

OUTPUT VOLTAGE TOLERANCE: ±5 volts.
CIRCUITRY: This unit is a solid state device including silicon rectifiers, germanium transistors, and hermetically sealed paper type condensers. There are no electrolytics used.
OPERATING AMBIENT: —55° to +75° C. Chassis temperature on which the converter is mounted not to exceed 75° C.
STORAGE AMBIENT: —55° to +95° C.
OUTPUT VOLTAGE TEMPERATURE CO-EFFICIENT: Less than —0.1 volts per °C.
PHYSICAL SPECIFICATIONS: Standard MIL-T-27, type JB case, width 3 1/16", depth 3 3/16", height 3 7/8". Hermetically sealed. Weight 3½ pounds.

OTHER UNREGULATED AND REGULATED UNITS BUILT TO ORDER

Specifications subject to change without notice

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KR SERIES

Kepco

VOLTAGE REGULATED POWER SUPPLIES

USING ADVANCED VACUUM TUBE REGULATOR CIRCUITRY

KR SERIES

with **NEW-IMPROVED FEATURES**

★ **FAST** RECOVERY TIME

★ **GOOD** STABILITY

★ **LOW** OUTPUT IMPEDANCE

KR Power Supplies are conservatively rated and are designed for continuous duty at 50°C ambient.

***REGULATION:** In the output voltage range the output voltage variation is less than the figure shown in the table for line fluctuations from 105 to 125 volts and load variations from 0 to maximum current. Regulation is in % or absolute voltage change whichever is greater.

RIPPLE: Less than 3 mv. rms.

STABILITY: The output voltage variation is less than the regulation specification for a period of 8 hours.

RECOVERY TIME: Less than 50 microseconds. The excursion in the output voltage during the recovery period is less than the regulation specification.

OUTPUT IMPEDANCE: Less than the figure in tables.

† All AC Voltages are unregulated.

- Fast recovery time, suitable for square wave pulsed loading.
- Voltage range continuously variable without switching.
- Either positive or negative may be grounded.
- Wire harness and resistor board construction.
- Power requirements 105-125 volts, 50-65 cycles.
- Locking type voltage control AC, DC switches, fuses, pilot lights.
- Terminations on rear of unit.
- Oil filled condensers.
- Color Grey Hammertone.
- Guarantee one year.

ALL MODELS AVAILABLE (ON SPECIAL ORDER)

- **For programmable remote voltage control.**
- **For 400 cycle operation.**

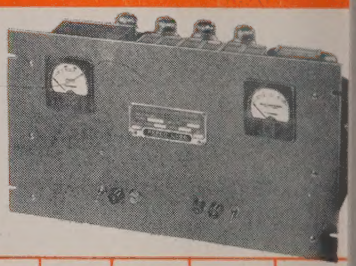
ORDERING INFORMATION · KR SERIES

• Units for rack mounting without meters — use Model Nos. indicated in tables. • To include 3″ meters — add M to Model No. (e.g. KR1-M) • To include cover and handles add C to Model No. (e.g. KR1-C) • To include Meters, cover and handles, add MC to Model No. (e.g. KR1-MC)

1.5 AMP. KR SERIES

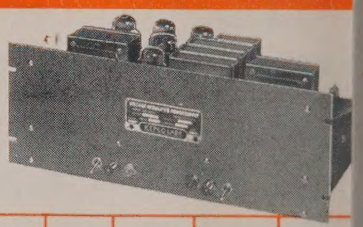
MODEL	DC OUTPUT VOLTS	REGULATION* LOAD 0-MAX. % or ΔV		LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK M W	RACK M H
KR16	0-150	0.1	0.2V	0.1	0.2V	3 mv.	0.1	Each Supply	19″	12¼
KR17	100-200	0.1	0.2V	0.1	0.2V	3 mv.	0.1	has two	19″	12¼
KR18	195-325	0.06	0.2V	0.06	0.2V	3 mv.	0.1	15 Amp.	19″	12¼
KR19	295-450	0.04	0.2V	0.04	0.2V	3 mv.	0.1	Outputs	19″	12¼

600 Ma. KR SERIES



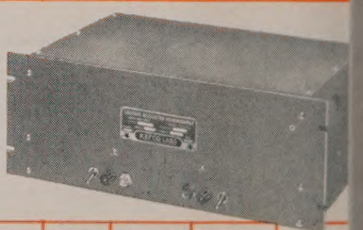
MODEL	DC OUTPUT VOLTS	REGULATION* LOAD 0-MAX. % or ΔV		LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK M W	RACK M H
KR8	0-150	0.1	0.2V	0.1	0.2V	3 mv.	0.3	Each Supply	19″	10½
KR5	100-200	0.1	0.2V	0.1	0.2V	3 mv.	0.3	has two	19″	10½
KR6	195-325	0.06	0.2V	0.06	0.2V	3 mv.	0.3	10 Amp.	19″	10½
KR7	295-450	0.04	0.2V	0.04	0.2V	3 mv.	0.3	Outputs	19″	10½

300 Ma. KR SERIES



MODEL	DC OUTPUT VOLTS	REGULATION* LOAD 0-MAX. % or ΔV		LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK M W	RACK M H
KR12	0-150	0.1	0.2V	0.1	0.2V	3 mv.	0.5	Each Supply	19″	7″
KR3	100-200	0.1	0.2V	0.1	0.2V	3 mv.	0.5	has two	19″	7″
KR4	195-325	0.06	0.2V	0.06	0.2V	3 mv.	0.5	5 Amp.	19″	7″
KR10	295-450	0.04	0.2V	0.04	0.2V	3 mv.	0.5	Outputs	19″	7″

125 Ma. KR SERIES



MODEL	DC OUTPUT VOLTS	REGULATION* LOAD 0-MAX. % or ΔV		LINE 105-125 % or ΔV		RIPPLE (RMS)	OUTPUT Z OHMS DC-100KC	6.3V† AC CT	RACK M W	RACK M H
KR11	0-150	0.1	0.2V	0.1	0.2V	3 mv.	0.9	Each Supply	19″	7″
KR1	100-200	0.1	0.2V	0.1	0.2V	3 mv.	0.9	has one	19″	7″
KR2	195-325	0.06	0.2V	0.06	0.2V	3 mv.	0.9	3 Amp.	19″	7″
KR9	295-450	0.04	0.2V	0.04	0.2V	3 mv.	0.9	Output	19″	7″